

Coulter counter measurement

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 An abbreviated version of this protocol was published in eLIFE in Jan 2020

YAP regulates cell size and growth dynamics via non-cell autonomous mediators

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Detailed protocol

- (1) Trypsinize cells as per your usual protocol until the majority of cells are visible as single cells under a microscope. Achieving that might requires some mechanical assistance by pipetting up and down gently using a 1 ml pipette. If your cells are too sensitive for that, we recommend gently tapping your culture vessel.
- (2) Add PBS at 10x the volume of Trypsin.
- (3) Spin cells down at 300x g for 5 mins.
- (4) Aspirate the supernatant, and resuspend cells in 1 ml PBS, then add the required volume of PBS to bring the final concentration of cells to ~ 1 million cells/ml.
- (5) Add 20 ml of [Isoton-III](#) solution to 1 ml of the cell suspension.
- (6) Measure samples on a [Z-series](#) Coulter Counter as per the vendor's [instructions](#).

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Mugahid, D. and kirschnder, M. (2022). Coulter counter measurement. Bio-protocol Preprint. bio-protocol.org/prep1781.
2. Mugahid, D., Kalocsay, M., Liu, X., Gruver, J. S., Peshkin, L. and Kirschner, M. W. (2020). YAP regulates cell size and growth dynamics via non-cell autonomous mediators. eLIFE. DOI: [10.7554/eLife.53404](https://doi.org/10.7554/eLife.53404)

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